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TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2408 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Rhodobacter sphaeroides
STRAIN: 2.4.1
FEATURE:
NAME/KEY: -35_signal
LOCATION: 262..267
FEATURE:
NAME/KEY: -10_signal
LOCATION: 285..290
FEATURE:
NAME/KEY: CDS
LOCATION: 346..1476
OTHER INFORMATION: /product= "Adhi Class III Alcohol
OTHER INFORMATION: Dehydrogenase Gene"
US-08-922-182-1
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Matches 64; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
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RESULT 5
US-08-919-953-1
; Sequence 1, Application US/08919953
; Patent No. 5837481
; GENERAL INFORMATION:
; APPLICANT: Donohue, Timothy J
; APPLICANT: Barber, Robert D
; APPLICANT: Withuhn, Vernon
; TITLE OF INVENTION: MICROBIAL SYSTEM FOR FORMALDEHYDE
; TITLE OF INVENTION: SENSING AND REMEDIATION
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles & Brady
; STREET: 1 South Plinkney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53703
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version_#1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/919,953
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/608,241
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Seay, Nicholas J
; REGISTRATION NUMBER: 27,386
; REFERENCE/DOCKET NUMBER: 960296,93511
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2408 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Rhodobacter sphaeroides
STRAIN: 2.4.1
FEATURE:
NAME/KEY: -35_signal
LOCATION: 262..267
FEATURE:
NAME/KEY: -10_signal
LOCATION: 285..290
FEATURE:
NAME/KEY: CDS
LOCATION: 346..1476
OTHER INFORMATION: /product= "Adhi Class III Alcohol
OTHER INFORMATION: Dehydrogenase Gene"
US-08-919-953-1
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Query Match          9.58: Score 31; DB 2; Length 2408;
Best Local Similarity 53.88; Pred. No. 1.1;
Matches 64; Conservative 0; Mismatches 55; Indels 0; Gaps 0;
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QY 27 CCGAGGCGGACCAACAGCGCGCGGCAAGACCGCTTGAAGTGAAGTGAATGC 86
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RESULT 6
US-09-192-983-1
; Sequence 1, Application US/09192983A
; Patent No. 6242244
; GENERAL INFORMATION:
; APPLICANT: Donohue, Timothy
; APPLICANT: Barber, Robert
; APPLICANT: Withuhn, Vernon
; TITLE OF INVENTION: Microbial System for Formaldehyde Sensing and
; TITLE OF INVENTION: Remediation
; FILE REFERENCE: 960296,95505
; CURRENT APPLICATION NUMBER: US/09/192,983A
; CURRENT FILING DATE: 1998-11-16
; EARLIER APPLICATION NUMBER: 08/919,953
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 08/608,241
; EARLIER FILING DATE: 1996-02-28
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 2408
; TYPE: DNA
; ORGANISM: Rhodobacter sphaeroides
; FEATURE:
; NAME/KEY: -35_signal
; LOCATION: (262)..(267)
; FEATURE:
; NAME/KEY: -10_signal
; LOCATION: (285)..(290)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (346)..(1476)
US-09-192-983-1
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; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Halle, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07662/005001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 678-5070
; TELEFAX: (619) 678-5099
; TELEX:
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2951 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-600-452A-7

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Pred. No. 5.3;
Matches 46; Conservative 0; Mismatches 28; Indels 0; Gaps 0;

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QY 63 CTTTGAAGTGAATA 76
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RESULT 10
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; Sequence 4236, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 4236
; LENGTH: 648
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-4236

Query Match
Best Local Similarity 8.7%; Score 28.6; DB 4; Length 648;
Pred. No. 4;
Matches 58; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

QY 16 GATGTGATATCCCGAGCGGACCAACAGCGCGGCGGCAAGAGCGCTTGAAGTGA 75
DB 509 GACGTGCAAGAGTGTGACGCAAGTCACTGCGGATGAGAGGACACTGGAAGCA 450
QY 76 AAGTGAATGCACTAGTCCCTCTGCGGCTGCGATATTGCGTTGATGA 122
DB 449 GAAGCGACCTCATGCTGTCTGAGGCGCGGCTGACGTATGATAA 403

RESULT 11
US-09-252-991A-9470/C
; Sequence 9470, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
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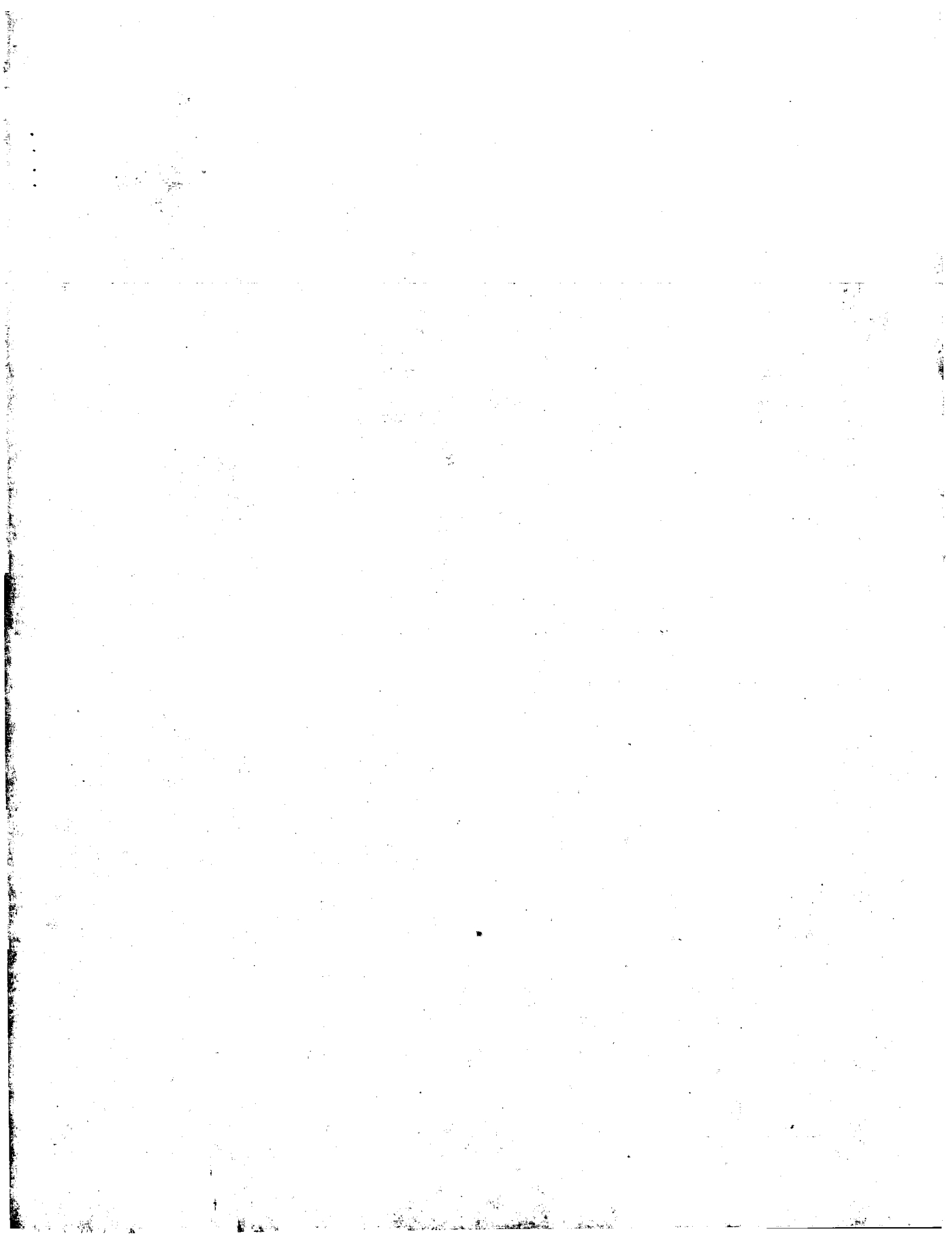
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 9470
; LENGTH: 723
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-9470

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Best Local Similarity 8.7%; Score 28.6; DB 4; Length 723;
Pred. No. 4.3;
Matches 79; Conservative 0; Mismatches 84; Indels 0; Gaps 0;

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DB 591 CGGACACAGCGGATCGGAGGCGCGTCGAGGACCATACCGCCCTTATGTTCTCGC 532
QY 130 ATCTGCAGAACCACTTATGATCTTTGCATGATGTCAG 172
DB 531 ATGCGCGGGGTCCGCGTATCCAGGGTGCATGGAAGACACG 489

RESULT 12
US-07-598-873-1/C
; Sequence 1, Application US/07598873
; Patent No. 5254800
; GENERAL INFORMATION:
; APPLICANT: BIRD, COLIN R
; APPLICANT: GRIERSON, DONALD
; APPLICANT: RAY, JOHN A
; APPLICANT: SCHUCH, WOLFGANG W
; TITLE OF INVENTION: DNA, CONSTRUCTS, CELLS AND PLANTS
; TITLE OF INVENTION: DERIVED THEREFROM
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CUSHMAN, DARBY & CUSHMAN
; STREET: Elevench Floor, 1615 L Street, N.W.
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036-5601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/598,873
; FILING DATE: 19901019
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARY J
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627 CUSH
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1080 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA to mRNA
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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Gapop 10.0 , Gapext 1.0

Searched: 1517243 seqs, 112408182 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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SUMMARIES

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1	325	99.4	476	11	US-09-918-995-17191	Sequence 17191, A
2	321.8	98.4	4543	14	US-10-198-846-11311	Sequence 11311, A
3	302.4	92.5	380	10	US-09-960-352-4677	Sequence 4677, A
4	296.8	90.8	5111	14	US-10-205-823-382	Sequence 382, A
5	253.6	77.6	3208	9	US-09-780-016-27	Sequence 27, A
6	253.6	77.6	3208	14	US-10-214-811-27	Sequence 27, A
7	205.8	62.9	449	11	US-09-918-995-14771	Sequence 14771, A
8	183.8	56.2	17561	14	US-10-017-721-30	Sequence 3, A
9	173	52.9	350	9	US-09-770-791-20	Sequence 20, A
c	10	157.4	42.4	14	US-10-198-846-2493	Sequence 2493, A
11	138.8	48.1	418	9	US-09-962-436-220	Sequence 220, A
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13	76	23.2	836	10	US-09-764-864-39	Sequence 39, A
14	76	23.2	836	10	US-09-764-864-498	Sequence 498, A
15	74	22.6	342	9	US-09-826-312-7	Sequence 7, A
16	74	22.6	342	14	US-10-108-767-7	Sequence 7, A

17	74	22.6	342	14	US-10-152-156-7	Sequence 7, Appl1
18	72.6	22.2	359	10	US-09-878-574-2188	Sequence 2188, App
19	58.6	17.9	612	10	US-09-796-692-8547	Sequence 8547, App
20	58.6	17.9	612	14	US-10-040-862-8547	Sequence 8547, App
21	52.8	16.1	269	10	US-09-878-574-15085	Sequence 15085, App
22	49.8	15.2	535	14	US-10-102-524-396	Sequence 396, App
23	46	14.1	833	13	US-10-027-632-162982	Sequence 162982,
24	46	14.1	833	13	US-10-027-632-162983	Sequence 162983,
25	40.6	12.4	1024	14	US-10-198-846-12407	Sequence 12407, App
26	39	11.9	202	9	US-09-815-343-1466	Sequence 1466, App
27	36.8	11.3	331	10	US-09-933-797-112	Sequence 112, App
28	33.2	10.2	493	11	US-09-867-701-3970	Sequence 3970, App
29	33	10.1	503	11	US-09-918-995-20531	Sequence 20531, App
30	33	10.1	603	10	US-09-764-864-38	Sequence 38, Appl
31	31.8	9.7	432	9	US-09-864-761-17889	Sequence 17889, App
32	31.2	9.5	848	10	US-09-920-745-8	Sequence 8, Appl1
33	31.2	9.5	8577	11	US-09-764-891-8855	Sequence 8855, App
34	31.2	9.5	23307	11	US-09-764-891-5530	Sequence 5530, App
35	31.2	9.5	23307	11	US-09-764-891-5646	Sequence 5646, App
36	31.2	9.5	133893	13	US-10-161-510-1	Sequence 1, Appl1
37	31	9.5	794	13	US-10-027-632-8474	Sequence 8474, App
38	30.6	9.3	449	10	US-09-960-352-3601	Sequence 3601, App
39	30.4	9.3	481	14	US-10-066-543-2315	Sequence 2315, App
40	30.2	9.2	342	10	US-09-960-352-436	Sequence 436, App
41	30.2	9.2	448	14	US-10-198-846-498	Sequence 498, App
42	30.2	9.2	615	14	US-10-127-816-3	Sequence 3, Appl1
43	30.2	9.2	769	14	US-10-072-602B-119	Sequence 119, App
44	30.2	9.2	2747	12	US-10-311-455-2370	Sequence 2370, App
45	30	9.2	472	10	US-09-764-864-487	Sequence 487, App

ALIGNMENTS

RESULT 1
US-09-918-995-17191
; Sequence 17191, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918, 995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235, 076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 17191
; LENGTH: 476
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(476)
; OTHER INFORMATION: n - A,T,C or G
US-09-918-995-17191
Query Match 99.4%; Score 325; DB 11; Length 476;
Best Local Similarity 100.0%; Pred. No. 8e-106;
Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 74 GCGGACGATGATGTGATACCCGAGCGGACCAACAGCGCGGCAAGAACG 133
OY 63 CTTGAATGAAGTGAATGAGTCCCTCGGCGGATATGCTGTGATAA 122
DB 134 CTTGAATGAAGTGAATGAGTCCCTCGGCGGATATGCTGTGATAA 193
OY 123 CTGTCATGTCAGAACCATATGATCTTGTGATAGTCAATGTCAGTACCAAGC 182

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QY 303 GGAATTCCAAAAGTATGGGCACTAG 327
DB 374 GGAATTCCAAAAGTATGGGCACTAG 398

RESULT 2
US-10-198-846-11311/c
; Sequence 11311, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11311
; LENGTH: 4543
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-198-846-11311

Query Match 98.4%; Score 321.8; DB 14; Length 4543;
Best Local Similarity 99.4%; Pred. No. 3.2e-104;
Matches 323; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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DB 969 CTGTGCGCATCTGCAGGACCACTTATGATCTTTGCATAGAAATGTCAAGCTAACCAAGGC 910
QY 183 GTCCGCTACTGAGAAGAGTGTACTGTCCATGGAGAGTCTGTAAACATGCTTTTCACTT 242
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QY 243 CCACGTGATCTCTCGCTGCTCAAAAACAGACAGGTGTGTCCATTGGACACAGAGAGTG 302
DB 849 CCACGTGATCTCTCGCTGCTCAAAAACAGACAGGTGTGTCCATTGGACACAGAGAGTG 790
QY 303 GGAATTCCAAAAGTATGGGCACTAG 327
DB 789 GGAATTCCAAAAGTATGGGCACTAG 765

RESULT 3
US-09-960-352-4677
; Sequence 4677, Application US/09960352
; Patent No. US20020137139A1

; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Ningping
; APPLICANT: Byatt, John C.
; APPLICANT: Mathalaagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 4677
; LENGTH: 380
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 20-LIB34-034-Q1-E1-E7
US-09-960-352-4677

Query Match 92.5%; Score 302.4; DB 10; Length 380;
Best Local Similarity 96.6%; Pred. No. 8.9e-98;
Matches 309; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
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DB 2 CAGCGATGATGTGATATCCCGAGCGGCAACAAGCGCGGCAAGAGCGCTTGG 61
QY 68 AAGTGAAGAGTGAATGCAATGCAAGCCCTCTGGGCTGGGATATTGTGGTATTA 127
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QY 128 CCATCTGCAGGAACCACTTATGATCTTTGCATAGAAATGTCAAGCTAACCAAGCGCTCG 187
DB 122 CCATCTGCAGGAACCACTTATGATCTTTGCATAGAAATGTCAAGCTAACCAAGCGCTCG 181
QY 188 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACATGCTTTTCACTTCCACT 247
DB 182 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTCTGTAAACATGCTTTTCACTTCCACT 241
QY 248 GCATCTCTCGCTGGGCTCAAAAACAGACAGGTGTGTCAATTGGACAAAGAGTGGGAT 307
DB 242 GCATCTCTCGCTGGGCTCAAAAACAGACAGGTGTGTCAATTGGACAAAGAGTGGGAT 301
QY 308 TCCTAAAGTATGGGCACTAG 327
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RESULT 4
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; Sequence 382, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Gorbacheva, Bella
; APPLICANT: Hoersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wansley, Angela M.
; APPLICANT: Glasey, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dushin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22

PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 382
LENGTH: 5111
TYPE: DNA
ORGANISM: Homo sapiens
US-10-205-823-382

Query Match 90.8%; Score 296.8; DB 14; Length 5111;
Best Local Similarity 99.3%; Pred. No. 3e-95;
Matches 298; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 GCGCGCAGCATGATGTGATACCCGAGCGGACCAAGCGCGCGGCAAGAGCG 62
DB 300 GCGCGCAGCATGATGTGATACCCGAGCGGACCAAGCGCGCGGCAAGAGCG 241
QY 63 CTTTGAAGTAAAAAGGAAATGATGATGATGATGATGATGATGATGATGATGAT 122
DB 240 CTTTGAAGTAAAAAGGAAATGATGATGATGATGATGATGATGATGATGATGAT 181
QY 123 CTGTGCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGAT 182
DB 180 CTGTGCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGAT 121
QY 183 GTCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACT 242
DB 120 GTCCGCTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACT 61
QY 243 CCACTGCATCTCCTGCTGCTCAAAACAGCAGCGTGTGCTCACTTGGACAGAGAGTG 302
DB 60 CCACTGCATCTCCTGCTGCTCAAAACAGCAGCGTGTGCTCACTTGGACAGAGAGTG 1

RESULT 5
US-09-780-016-27
Sequence 27, Application US/09780016
Patent No. US20020004591A1
GENERAL INFORMATION:
APPLICANT: Donoho, Gregory
APPLICANT: Scoville, John
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Friedrich, Glenn
APPLICANT: Abulin, Alejandro
APPLICANT: Zambrowicz, Brian
APPLICANT: Sands, Arthur T.
TITLE OF INVENTION: No. US20020004591A1el Human Proteases and
FILE REFERENCE: LEX-0132-USA
CURRENT APPLICATION NUMBER: US/09/780,016
CURRENT FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,294
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 3208
TYPE: DNA
ORGANISM: homo sapiens
US-09-780-016-27

Query Match 77.6%; Score 253.6; DB 9; Length 3208;
Best Local Similarity 98.5%; Pred. No. 7.1e-80;
Matches 256; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 68 AAGTGAAGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 127
DB 2765 AAAAAAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 2824

QY 128 CCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGATGAT 187
DB 2825 CCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGATGAT 2884
QY 188 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACTTCCACT 247
DB 2885 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACTTCCACT 2944
QY 248 GCATCTCTGCTGCTCAAAACAGCAGGTTGTCCATTTGGACACAGAGAGTGGGAT 307
DB 2945 GCATCTCTGCTGCTCAAAACAGCAGGTTGTCCATTTGGACACAGAGAGTGGGAT 3004
QY 308 TCCAAAAGTATGGGCACTAG 327
DB 3005 TCCAAAAGTATGGGCACTAG 3024

RESULT 6
US-10-214-811-27
Sequence 27, Application US/10214811
Publication No. US20030023062A1
GENERAL INFORMATION:
APPLICANT: Donoho, Gregory
APPLICANT: Scoville, John
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Friedrich, Glenn
APPLICANT: Abulin, Alejandro
APPLICANT: Zambrowicz, Brian
APPLICANT: Sands, Arthur T.
TITLE OF INVENTION: No. US20030023062A1el Human Proteases and
FILE REFERENCE: LEX-0132-USA
CURRENT APPLICATION NUMBER: US/10/214,811
CURRENT FILING DATE: 2002-08-07
PRIOR APPLICATION NUMBER: US/09/780,016
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: US 60/181,294
PRIOR FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 3208
TYPE: DNA
ORGANISM: homo sapiens
US-10-214-811-27

Query Match 77.6%; Score 253.6; DB 14; Length 3208;
Best Local Similarity 98.5%; Pred. No. 7.1e-80;
Matches 256; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 68 AAGTGAAGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 127
DB 2765 AAAAAAAGTGAATGATGATGATGATGATGATGATGATGATGATGATGAT 2824
QY 128 CCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGATGAT 187
DB 2825 CCATCTGCAGAACACATTTATGATGATGATGATGATGATGATGATGATGATGAT 2884
QY 188 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACTTCCACT 247
DB 2885 CTACTTCAGAAAGTGTACTGTGCGATGGGAGTGTGTAACCATCTTTCACTTCCACT 2944
QY 248 GCATCTCTGCTGCTCAAAACAGCAGGTTGTCCATTTGGACACAGAGAGTGGGAT 307
DB 2945 GCATCTCTGCTGCTCAAAACAGCAGGTTGTCCATTTGGACACAGAGAGTGGGAT 3004
QY 308 TCCAAAAGTATGGGCACTAG 327
DB 3005 TCCAAAAGTATGGGCACTAG 3024

RESULT 7

US-09-918-995-14771
: Sequence 14771, Application US/09918995
: Publication No. US20030073623A1
: GENERAL INFORMATION:
: APPLICANT: Hyseq, Inc.
: TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
: TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
: FILE REFERENCE: 20411-756
: CURRENT APPLICATION NUMBER: US/09/918, 995
: CURRENT FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: US/09/235, 076
: PRIOR FILING DATE: 1999-01-20
: NUMBER OF SEQ ID NOS: 38054
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 14771
: LENGTH: 439
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-918-995-14771

Query Match 62.9%; Score 205.8; DB 11; Length 439;
Best Local Similarity 99.0%; Pred. No. 3,66-63;
Matches 207; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 78 GTGGATGACAGTACGCTCTGGCGCTGGATATTGTGGTATGATGTCGATCTGAG 137
DB 231 GTGGATGACATATCCCTCTGGCGCTGGATATTGTGGTATGATGTCGATCTGAG 290
OY 138 GAACCACTTATGATCTTTGATAGATGTCAGCTAACAGCGCTGCTACTTACA 197
DB 291 GAACCACTTATGATCTTTGATAGATGTCAGCTAACAGCGCTGCTACTTACA 350
OY 198 AGAGTGCTGCTGGATGGAGTCTGTAACTGCTTTGATGCTGATCTCTCG 257
DB 351 AGAGTGCTGCTGGATGGAGTCTGTAACTGCTTTGATGCTGATCTCTCG 410
OY 258 CTGGCTCAAAACAGCAGAGTGTGTCCAT 286
DB 411 CTGGCTCAAAACAGCAGAGTGTGTCCAT 439

RESULT 8
US-10-017-721-3
: Sequence 3, Application US/10017721
: Publication No. US20030096248A1
: GENERAL INFORMATION:
: APPLICANT: McCarthy, Jeanette
: APPLICANT: Daley, George
: TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
: FILE REFERENCE: MMI-003
: CURRENT APPLICATION NUMBER: US/10/017, 721
: CURRENT FILING DATE: 2001-12-14
: PRIOR APPLICATION NUMBER: US 60/317, 033
: PRIOR FILING DATE: 2001-09-04
: PRIOR APPLICATION NUMBER: US 60/330, 248
: PRIOR FILING DATE: 2001-10-17
: NUMBER OF SEQ ID NOS: 13
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 175561
: TYPE: DNA
: ORGANISM: Homo sapiens
US-10-017-721-3

Query Match 56.2%; Score 183.8; DB 14; Length 175561;
Best Local Similarity 81.3%; Pred. No. 4,5e-54;
Matches 269; Conservative 0; Mismatches 42; Indels 20; Gaps 4;
OY 1 ATGGCGGACGAGTATGATGATACCCCGAGCGGCGGCGGCGGCAAGAG 60
DB 59458 ATGGCGGACGAGTATGATGATACCCCGAGCGGCGGCGGCAAGAGC-----AG 59504

OY 61 CGCTTGAAGTGAAGAAAGTGAATGAGC-----TAGCCCTCTGGCGCTGGATATTGTGCT 116
DB 59505 TGCTTGAAGTGAAGAAAGTGAATGAGC-----TAGCCCTCTGGCGCTGGATATTGTGCT 59564
OY 117 TGAATCTGTCATCTGACGAGAACCACTTATGATCTTTGATAGATGTCAGCTAA 176
DB 59565 TAATTAAGTGGCATCTGACGAGATACACAGATGATC--TGATTTGAATGTCAACTAA 59622
OY 177 CCAGGCTCCGCTACTTCAAGAGAGTACTGTGCGATGGGAGCTGTACCATGCTTT 236
DB 59623 CCAAGACTGTCGCCACTTCAAGAGAGTACTGTGCGATGGGAGCTGTACCATGCTTT 59682
OY 237 TCACTTCACTGATCTCTGCTGCTGCTCAAAAGACAGAGTGTGTCATTTGACACAG 296
DB 59683 TCACTT-CAGTGTCTCTGCTGCTGCTCAAAAGACAGAGTGTGTCATTTGACACAG 59741
OY 297 AGAGTGGAAATTCAGAAAGTATGGGCACTAG 327
DB 59742 ACAATAGCAATTCAGAAAGTATGGGCACTAG 59772

RESULT 9
US-09-770-791-20
: Sequence 20, Application US/09770791
: Patent No. US20020062014A1
: GENERAL INFORMATION:
: APPLICANT: Gorlach, Jorn
: APPLICANT: An, Yong-Qiang
: APPLICANT: Hamilton, Carol M.
: APPLICANT: Price, Jennifer L.
: APPLICANT: Raines, Tracy M.
: APPLICANT: Yu, Yang
: APPLICANT: Rameaka, Joshua G.
: APPLICANT: Page, Amy
: APPLICANT: Mathew, Abraham V.
: APPLICANT: Ledford, Brooke L.
: APPLICANT: Woessner, Jeffrey P.
: APPLICANT: Haas, William David
: APPLICANT: Garcia, Carlos A.
: APPLICANT: Krieker, Maja
: APPLICANT: Slader, Ted
: APPLICANT: Davis, Keith R.
: APPLICANT: Allen, Keith
: APPLICANT: Hoffman, Neil
: APPLICANT: Hurban, Patrick
: TITLE OF INVENTION: Expressed Sequences of Arabidopsis
: FILE REFERENCE: 2029 (PARA-018PRV)
: CURRENT APPLICATION NUMBER: US/09/770, 791
: CURRENT FILING DATE: 2001-01-26
: PRIOR APPLICATION NUMBER: 60/178,480
: PRIOR FILING DATE: 2000-01-27
: NUMBER OF SEQ ID NOS: 999
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 20
: LENGTH: 390
: TYPE: DNA
: ORGANISM: Arabidopsis thaliana
US-09-770-791-20

Query Match 52.9%; Score 173; DB 9; Length 390;
Best Local Similarity 77.7%; Pred. No. 1,9e-51;
Matches 209; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
OY 58 AAGCGCTTTGAAGTGAAGAAAGTGAATGACCTGCTGGCGCTGGATATTGTGCTT 117
DB 110 AAGCGATTCGAATTAAGAAAGTGAAGCGCGCTGCTGCTGGCGCTGGATATTGTGCTT 169
OY 118 GATACTGTGCTGCTGACGAGAACCACTTATGATCTTTGATAGATGTCAGCTAAC 177
DB 170 GACAACCTGTGCTGCTGACGAGAACCACTTATGATCTTTGATAGATGTCAGCTAAC 229
OY 178 CAGCGCTCCGCTACTTCAAGAGAGTGTACTGCGATGGGAGTCTGTAACTGATGCTTTT 237

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Db      230 CAGGCGAGTGCACCAAGTGAAGAGTGCATGTAGCTGGGGGGTTGGCAATACGCGCTTC 289
      238 CACTTCCTCATGTCTCTCTGCGCTGCTCAAAACACGACGAGTGTCTCATTTGGACACACA 297
      290 CACTTCATCATGTAGCAGATGGCTAAAGACTCGTCAAGTTGTCCATTGGATTAACACT 349
Qy      298 GAGTGGGAATTCACAAAGATGGGCACTA 326
      350 GAGTGGAGTTTCAGAAATATGTGTCACTA 378

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RESULT 10
US-09-962-436-220/c
; Sequence 220, Application US/09962436
; Patent No. US20020081301A1
; GENERAL INFORMATION:
; APPLICANT: Soppet, Daniel
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
; FILE REFERENCE: 689290-75
; CURRENT APPLICATION NUMBER: US/09/962,436
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/60/235,082
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/234,924
; NUMBER OF SEQ ID NOS: 568
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 220
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-962-436-220

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Query Match      48.1%; Score 157.4; DB 9; Length 418;
Best Local Similarity 85.4%; Pred. No. 7.5e-46;
Matches 199; Conservative 0; Mismatches 31; Indels 3; Gaps 2;

```

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Qy      95 TCTGGCCCTGGGATATGTGCTTGAATCTGCACTGCGACGGAACCACTATTGATC 154
      417 TCTGGCCCTGGGATATGTGCTTGAATCTGCACTGCGACGGAATCAACCATGATGATC 358
Qy      155 TTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 214
      357 --TGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 300
Qy      215 GGGAGCTGTGATACCATGCTTTTCACTTCCACTGATCTCTGCTGGCTCAAAACACGAC 274
      299 GGGAGCTGTGATACCATGCTTTTCACTTCCACTGATCTCTGCTGGCTCAAAACACGAC 241
Db      299 GGGAGCTGTGATACCATGCTTTTCACTTCCACTGATCTCTGCTGGCTCAAAACACGAC 241
Qy      275 AGGTGTGTCATTTGACCAACGAGAGTGGGATTTCCAAAGATGGGCACTG 327
      240 AGCTGTGCTGTGTGACCAACGAGATGGAATTTCCCAAGATGAGACACG 188

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RESULT 11
US-10-198-846-2493
; Sequence 2493, Application US/10198846
; Publication No. US2003009974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18

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; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2493
; LENGTH: 415
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 5
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-2493

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Query Match      42.4%; Score 138.8; DB 14; Length 415;
Best Local Similarity 98.6%; Pred. No. 3.4e-39;
Matches 140; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      1 ATGGCGGACGCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 60
      91 ATGGCGGACGCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 150
Qy      61 CGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 120
      151 CGCTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 210
Qy      121 AACTGTGCGCATCTGCAGAAC 142
      211 AACTGTGCGCATCTGCAGAAC 232
Db

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RESULT 12
US-09-294-093B-735
; Sequence 735, Application US/09294093B
; Patent No. US20010051335A1
; GENERAL INFORMATION:
; APPLICANT: Laligudi, Raghunath, V.
; APPLICANT: Ito, laura, Y.
; APPLICANT: Sherman, Bradley, K.
; TITLE OF INVENTION: POLYNUCLOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL
; FILE REFERENCE: PL-0009 US
; CURRENT APPLICATION NUMBER: US/09/294,093B
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 60/082,567
; PRIOR FILING DATE: April 21, 1998
; NUMBER OF SEQ ID NOS: 6207
; SOFTWARE: PERL Program
; SEQ ID NO 735
; LENGTH: 271
; TYPE: DNA
; ORGANISM: zea mays
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20010051335A1 700343233H1
; NAME/KEY: unsure
; LOCATION: 89, 219
; OTHER INFORMATION: a, t, c, g, or other
US-09-294-093B-735

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Query Match      23.4%; Score 76.4; DB 9; Length 271;
Best Local Similarity 70.6%; Pred. No. 6.1e-17;
Matches 115; Conservative 0; Mismatches 47; Indels 1; Gaps 1;

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Qy      19 GTGGATACCCGACGCGGCACCAACGCGCGCGGCAACAGCGCTTTGAATGAAAAAG 78
      110 GTGGATACCCGACGCGGCACCAACGCGCGCGGCAACAGCGCTTTGAATGAAAAAG 169
Qy      79 TGAATGACGATGACCGCTCTGCGCGCTGATATGATGATGATGATGATGATGATGATGATGATGAT 138
      170 TGAATGACGATGACCGCTCTGCGCGCTGATATGATGATGATGATGATGATGATGATGATGATGAT 228
Qy      139 AACCAATTAATGATCTTTGATTAAGATGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 181
      229 AACCAATTAATGATCTTTGATTAAGATGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGAT 271
Db

```

RESULT 13
US-09-764-864-39
; Sequence 39, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 39
; LENGTH: 836
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-864-39

Query Match 23.2%; Score 76; DB 10; Length 836;
Best Local Similarity 56.9%; Pred. No. 1.4e-16;
Matches 164; Conservative 0; Mismatches 115; Indels 9; Gaps 1;

QY 26 CCCGAGCGGACCAACAGCGCGCGGCAAGAGCGCTTTGAAGTGAAGTGAATG 85
DB 65 CCGGAGCTCAGCTCAGCAAGTCGGAGCGGACAGATGTCTCCCTCAAGAGTGAACG 124
QY 86 CAGTAGCCCTCTGGGCTCGGATATTTGGTTGATTAATCTGTCATCTGCGAGAACCA 145
DB 125 CCGGAGCGGATGAGGCTGAGCGAGTCGAGTACGATGCGCATCTGACGGGTCCAGG 184
QY 146 TTATGATCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 205
DB 185 TGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 235
QY 206 CTGTCGATGGGAGTGTGTAACCATGCTTTTCACTTCGATCTGCTGCTGCTCA 265
DB 236 TTGTGCTGTGGGAGATGTATATCTCTCCACATGCTGCTGCTGCTGCTGCTGCTG 295
QY 266 AACACGACAGCTGTGTCATTTGACACACAGACAGTGGGATTTCCAAA 313
DB 296 AACAGAACATTCCTGCTCTCTCTGCGACGAGACTGGGTGTCAAA 343

RESULT 14
US-09-764-864-498
; Sequence 498, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT223
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 498
; LENGTH: 836
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (45)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-764-864-498

Query Match 23.2%; Score 76; DB 10; Length 836;
Best Local Similarity 56.9%; Pred. No. 1.4e-16;
Matches 164; Conservative 0; Mismatches 115; Indels 9; Gaps 1;

QY 26 CCCGAGCGGACCAACAGCGCGCGGCAAGAGCGCTTTGAAGTGAAGTGAATG 85

DB 118 CCGGAGCTCAGGCTCCAAAGTCGGAGGCGGACAGATGTCTCCCTCAAGAGTGAACG 177
QY 86 CAGTAGCCCTCTGGGCTCGGATATTTGGTTGATTAATCTGTCATCTGCGAGAACCA 145
DB 178 CCGGAGCTCAGGCTCGGAGTCGAGCGGATGATGATGATGATGATGATGATGATGAT 237
QY 146 TTATGATCTTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 205
DB 238 TGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 288
QY 206 CTGTCGATGGGAGTGTGTAACCATGCTTTTCACTTCGATCTGCTGCTGCTCA 265
DB 289 TTGTGCTGTGGGAGATGTATATCTCTCCACATGCTGCTGCTGCTGCTGCTGCTG 348
QY 266 AACACGACAGCTGTGTCATTTGACACACAGACAGTGGGATTTCCAAA 313
DB 349 AACAGAACATTCCTGCTCTCTCTGCGACGAGACTGGGTGTCAAA 396

RESULT 15
US-09-826-312-7
; Sequence 7, Application US/09826312
; Patent No. US2002042083A1
; GENERAL INFORMATION:
; APPLICANT: Issakant, Sarkiz D.
; APPLICANT: Huang, Jianping
; APPLICANT: Sheung, Julie
; APPLICANT: Pray, Todd R.
; TITLE OF INVENTION: DB1011TN LIGASE ASSAY
; FILE REFERENCE: A-68613-1/RMS/USD
; CURRENT APPLICATION NUMBER: US/09/826,312
; CURRENT FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 09/542,497
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patent In version 3.1
; SEQ ID NO 7
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-312-7

Query Match 22.6%; Score 74; DB 9; Length 342;
Best Local Similarity 58.4%; Pred. No. 4.9e-16;
Matches 153; Conservative 0; Mismatches 100; Indels 9; Gaps 1;

QY 52 GCGAAGAGCGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 111
DB 76 GCGAAGAGATGTCTCTCCCTCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 135
QY 112 GTGTTGATTAATCTGCGATCTGCAAGCAACATTAATGATCTTTGATGATGATGATG 171
DB 136 GAGTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 195
QY 172 GCTAACAGAGCGCTCTACTTCAAGAGAGTGTACTGTCGATGAGGAGTGTCTTAACAT 231
DB 196 GCTGAATA-----CAACAGAGAGAGTGTCTTGTGCTGCTGGGAGATGTAATCAT 246
QY 232 GCTTTTACCTTCACTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 291
DB 247 TCCCTTCCACAACTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 306
QY 292 AACAGAGTGGGATTTCCAAA 313
DB 307 CAGCAGAGCTGGGTGTCAAA 328

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OM protein - nucleic search, using frame_plus_p2n model

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdl
-LIST=45 -DOCALLIGN=200 -THR_SCORE=pc -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=plc -NOR=ext -HEAPSIZE=500 -MILEN=0 -MAXLEN=2000000000
-USER=US09541462 -ECGN.1.1.44 -runet.22082003.155806.25480 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PTCUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	501.5	81.4	3208	4	US-09-780-016-27
2	262.5	42.6	301	4	US-09-313-294A-492
3	217	35.2	648	4	US-09-599-360B-27
4	90	14.6	8438	1	US-07-945-283-1
5	85	13.8	2339	3	US-09-268-140-11
6	85	13.8	2505	3	US-09-268-140-1
7	85	13.8	2517	3	US-09-268-140-7
8	83	13.5	315	4	US-09-325-932A-4
9	81.5	13.2	4259	3	US-08-816-155B-2
10	81.5	13.2	4259	3	US-09-079-587-2
11	80.5	13.1	804	3	US-08-998-416-881
12	80	13.0	944	2	US-08-786-606-4

13	80	13.0	1112	2	US-08-933-750C-97
14	80	13.0	1112	3	US-09-234-613-97
15	79.5	12.9	1683	1	US-07-945-283-3
16	79	12.8	1470	4	US-09-663-600A-153
17	79	12.8	1544	2	US-08-867-057-2
18	79	12.8	1544	2	US-09-128-369-2
19	79	12.8	1570	4	US-09-663-600A-59
20	78	12.7	278	4	US-09-313-294A-756
21	78	12.7	2146	4	US-09-620-312D-443
22	77.5	12.6	617	4	US-09-280-116-115
23	77.5	12.6	1830121	4	US-09-557-884-1
24	77.5	12.6	1830121	4	US-09-643-990A-1
25	76	12.3	621	4	US-09-364-206-78
26	76	12.3	3911	4	US-09-423-890-1
27	76	12.3	4693	3	US-09-359-756-1
28	76	12.3	5253	4	US-09-423-890-7
29	76	12.3	5539	4	US-08-628-829-3
30	75.5	12.3	1355	4	US-09-599-360B-64
31	74.5	12.1	900	4	US-09-328-352-1185
32	74.5	12.1	1114	4	US-09-690-454-39
33	74.5	12.1	1251	4	US-09-205-258-156
34	74.5	12.1	1253	2	US-08-786-606-6
35	74.5	12.1	1253	4	US-09-016-434-5
36	74.5	12.1	1831	6	5215881-3
37	74.5	12.1	1831	6	5215881-1
38	74.5	12.1	2481	4	US-09-894-998A-35
39	74	12.0	266	4	US-09-313-294A-1763
40	74	12.0	148567	4	US-09-801-876B-3
41	73	11.9	1397	3	US-08-946-026-17
42	73	11.9	1656	3	US-08-699-103B-7
43	73	11.9	1656	4	US-09-229-059-7
44	73	11.9	1656	4	US-09-628-133-7
45	72.5	11.8	666	1	US-08-018-977C-2

ALIGNMENTS

RESULT 1
US-09-780-016-27
Sequence 27, Application US/09780016
Patent No. 6509456
GENERAL INFORMATION:
APPLICANT: Donoho, Gregory
APPLICANT: Scoville, John
APPLICANT: Turner, C. Alexander Jr.
APPLICANT: Friedrich, Glenn
APPLICANT: Abidin, Alejandro
APPLICANT: Zambrowicz, Brian
APPLICANT: Sands, Arthur T.
TITLE OF INVENTION: No. 6509456el Human Proteases and
FILE REFERENCE: LEX-0132-USA
CURRENT APPLICATION NUMBER: US/09/780,016
PRIOR APPLICATION NUMBER: 2001-02-09
CURRENT FILING DATE: 2000-02-11
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 27
LENGTH: 3208
TYPE: DNA
ORGANISM: homo sapiens
US-09-780-016-27
Alignment Scores:
Pred. No.: 5.03e-53
Score: 501.50
Percent Similarity: 95.70%
Best Local Similarity: 94.62%
Query Match: 81.41%
DB: 4
Length: 3208
Matches: 88
Conservative: 1
Mismatch: 1
Indels: 3
Gaps: 1

QY 16 GYALAGLYLysArgPheGluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrp 35
DB 2752 GGACGATATAAAAAAAAA-----AAAAATGAGATGAGTACCCCTCTGGCGCTCG 2802
QY 36 AspIleValAlaAspAsnCysAlaAlaIleCysArgAsnHisIleMetAspLeuCysIleGlu 55
DB 2803 GATATTGGTTGATTACTGTGCATCTGCAGAACCAATTATGATCTTTGCATGAA 2862
QY 56 CysGlnAlaAsnGlnAlaSerAlaThrSerGluLysTrpValAlaTrpGlyValCys 75
DB 2863 TGTCAAGCTAACCAAGGCTCGCTACTTCAAGAACAGTGTCTGCGATGGGAGTCTGT 2922
QY 76 AsnHisAlaPheHisPheHisCysIleSerArgTrpLeuLysTrpArgGlnValCysPro 95
DB 2923 AACCATGCTTTTCACTTCCACTGCATCTCTCGCTGCATAAACACAGCAGGTGTGCCA 2982
QY 96 LeuAspAsnArgGluTrpGluPheGluLysTrpGlyHis 108
DB 2983 TTGCAACAACAGAGAGTGGAAATTCAAAAGTATGGGCAC 3021

RESULT 2

US-09-313-294A-492
Sequence 492, Application US/09313294A
Patent No. 6476212
GENERAL INFORMATION:
APPLICANT: Laligudi, Raghunath V.
APPLICANT: Ito, Laura Y.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
FILE REFERENCE: PL-0017 US
CURRENT APPLICATION NUMBER: US/09/313,294A
CURRENT FILING DATE: 1999-05-14
NUMBER OF SEQ ID NOS: 7600
SOFTWARE: PERL Program
SEQ ID NO 492
LENGTH: 301
TYPE: DNA
ORGANISM: Zea mays
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. 6476212 700549333M1
US-09-313-294A-492

Alignment Scores:

Pred. No.:	1,91e-24	Length:	301
Score:	262.50	Matches:	51
Percent Similarity:	71.43%	Conservative:	4
Best Local Similarity:	66.23%	Mismatches:	7
Query Match:	42.61%	Indels:	15
DB:	4	Gaps:	2

US-09-541-462b-2 (1-108) x US-09-313-294A-492 (1-301)

QY 3 AlaAlaMetAspValAsp-----ThrProSerGlyTrpAsnSer 15
DB 70 TCCGCCATGAGACCGACATCAACGCCGCCGCCGCCGCCAGCTGGCGAGGATCC 129
QY 16 GYALAGLY-----LysArgPheGluValLysLysTrp 27
DB 130 TCTCGGCGGCTCGCTCTCCCGAACCCCAACAAAGCGCTTCCAGATCAAGAGTGG 189
QY 28 AsnAlaValAlaLeuTrpAlaTrpAspIleValAlaAspAsnCysAlaIleCysArgAsn 47
DB 190 AACGCGCTCGCTCGCGATGAGATCGTCTGCACAACTGCCCTATCTGCCCAAC 249
QY 48 HisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThr 64
DB 250 CACATCATGATGATATGATCGAGTGCAGGGCAACCAAGCCAGCGCGAC 300

RESULT 3

US-09-599-360B-27
Sequence 27, Application US/09599360B

Patent No. 6548633
GENERAL INFORMATION:
APPLICANT: Dumas Milne Edwards, J.B.
APPLICANT: Bouquelerey, L.
APPLICANT: Jobert, S.
TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
FILE REFERENCE: GENSET.050CP3
CURRENT APPLICATION NUMBER: US/09/599,360B
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 60/113,686
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/141,032
PRIOR FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: 09/469,099
PRIOR FILING DATE: 1999-12-21
NUMBER OF SEQ ID NOS: 123
SOFTWARE: Patent.pm
SEQ ID NO 27
LENGTH: 648
TYPE: DNA
ORGANISM: Homo Sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 187..438
NAME/KEY: POLYA_signal
LOCATION: 612..617
NAME/KEY: POLYA_site
LOCATION: 632..648
US-09-599-360B-27

Alignment Scores:

Pred. No.:	2.79e-18	Length:	648
Score:	217.00	Matches:	43
Percent Similarity:	44.53%	Conservative:	18
Best Local Similarity:	31.39%	Mismatches:	40
Query Match:	35.23%	Indels:	36
DB:	4	Gaps:	3

US-09-541-462b-2 (1-108) x US-09-599-360B-27 (1-648)

QY 2 AlaAlaAlaMetAspValAspTrpProSerGlyTrpAsnSerGlyValGlyLysArg 21
DB 49 GCCGCGACTGTGTGCTTTTATACCTCCCGCGGAGCGGCCCTCCCAACGAAAG 108
QY 22 PheGlu-----ValLysTrpAsnAlaValAlaLeuTrp 33
DB 109 GCCGACAGCGAGTTTCTCATGTGGCGAGCCCATTTGAGATCTTGAGATATCTCA 168
QY 24 -----ValLysTrpAsnAlaValAlaLeuTrp 33
DB 169 ACGTGAGCTCTGTCCATGAAGTGGAAGATTAAAGTGTGGAACGGCGCTTGG 228
QY 34 AlaTrpAspIleValAlaAspAsnCysAlaAlaIleCysArgAsnHisIleMetAspLeuCys 53
DB 229 CTCTGGGTGGCCAAAGATGAGAACTGTGCATCTGCAGATGGCATTTAAAGATGCTGC 288
QY 54 IleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluLysLysTrpValAlaTrpGly 73
DB 289 CCTGACTCGAG-----CTGCCCGCGCGAGCTCCCGCTGTCTGGGCG 333
QY 74 ValCysAsnHisAlaPheHisPheHisCysIleSerArgTrpLeuLysTrpArgGlnVal 93
DB 334 CAGTCTCCCACTGCTGCATGATGATCTCAAGTGGCTGCACGACAGCAGAGTG 393
QY 94 -----CysProLeuAspAsnArgGluTrpGluPheGluLysTrpGly 107
DB 394 CAGCAGCACTGCCCATGTGCGCCAGAGATGAAATTCAAGAGATGAGGC 444

RESULT 4

US-07-945-283-1/c
Sequence 1, Application US/07945283
Patent No. 532596
GENERAL INFORMATION:


```

Db          1521 CGAATGG-----TGGTCCGTCAGG-----GACTGCCCATTCGCG 1488
OY          46  ArgAnshIleMetAspLeuCysIlleGlucysGlnAlaAsnGlnAlaSerAlaThrSer 65
Db          1488 -----CTGGAGCGTC-----GCGGCCACC 1471
OY          66  GluGlucSThrValAlaIatrpGlyValCysAsnHisAlaPheHisPheHisCysIlleSer 85
Db          1470 GAGCGCGCAGCGCGCGCG-----TGCATGCACAGATTCTGTCTGCGACTGCATCCAG 1420
OY          86  ArgTTrpLeuSThrArgGlnValCysProLeuAspAsn 98
Db          1419 CGGTGGACCTCTGACGACGACCGCGCTGCCGCTGTGCAT 1381

RESULT 5
US-09-268-140-11
; Sequence 11, Application US/09268140
; Patent No. 6268176
; GENERAL INFORMATION:
; APPLICANT: Gemmill, Robert M.
; APPLICANT: Drabkin, Harry A.
; TITLE OF INVENTION: TRC8, A GENE RELATED TO THE HEDGEHOG RECEPTOR, PATCHED
; FILE REFERENCE: 93445-00004
; CURRENT APPLICATION NUMBER: US/09/268,140
; PRIOR FILING DATE: 2000-03-12
; PRIOR FILING DATE: 1998-03-12
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 2339
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-268-140-11

Alignment Scores:
Pred. NO.:          0.585          Length:          2339
Score:              85.00          Matches:         24
Percent Similarity: 40.48%          Conservative:    10
Best local Similarity: 28.57%          Mismatches:     22
Query Match:        13.80%          Indels:         28
DB:                 3              Gaps:             4

US-09-541-462B-2 (1-108) x US-09-268-140-11 (1-2339)
OY          20  LysArghheGluValLysLysTyrPrASnAlaValAlaLeuTrpAlaTrpAspIle----- 37
Db          1635 CGTGGAGCTGCTGTGAAGAAATTAATTAATCACTTCT-----GAATTAAGGG 1682
OY          38  -----ValValAspAsnCysAlaIleCysAlaArgAsnHisIleMetAspLeu 52
Db          1683 AGCCGCTTACAGAAATTAATGATGTATGTGCATTCGTATCTCATGACTTT----- 1733
OY          53  CysIlleGlucysGlnAlaAsnGlnAlaSerAlaThrSerGluCysThrValAlaIatrp 72
Db          1734 -----ACAAACATCTGCTGATTTACA----- 1754
OY          73  GlYAlaLysAsnHisAlaPheHisPheHisCysIlleSerAlaGtrpLeuLysThrArgGln 92
Db          1755 ---CCGTGATCACTATTTTCCACATGCACTTGGCCCTGGAAATGGCTGACATTCAGAGAT 1811
OY          93  ValCysProLeu 96
Db          1812 ACTGTCTCAATG 1823

RESULT 6
US-09-268-140-1
; Sequence 1, Application US/09268140
; Patent No. 6268176
; GENERAL INFORMATION:
; APPLICANT: Gemmill, Robert M.
; APPLICANT: Drabkin, Harry A.

```



```
; Patent No. 5990091
; GENERAL INFORMATION:
; APPLICANT: TARTAGLIA, JAMES
; APPLICANT: COX, WILLIAM I.
; APPLICANT: GETTIG, RUSSELL R.
; APPLICANT: MARTINEZ, HECTOR
; APPLICANT: PAOLETTI, ENZO
; APPLICANT: PINCUS, STEVEN E.
; TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
; TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
; STREET: 745 FIFTH AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10151
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/816,155B
; FILING DATE: 12-MAR-1997
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: KOMALSKI, THOMAS J.
; REGISTRATION NUMBER: 32,147
; REFERENCE/DOCKET NUMBER: 454310-2990
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-588-0800
; TELEFAX: 212-588-0500
; INFORMATION FOR SEQ. ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4259 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-816-155B-2

Alignment Scores:
Pred. No.: 3 64 Length: 4259
Score: 81.50 Matches: 22
Percent Similarity: 36.14% Conservative: 8
Best Local Similarity: 26.51% Mismatches: 22
Query Match: 13.23% Indels: 31
Gaps: 4

US-09-541-462b-2 (1-108) x US-08-816-155B-2 (1-4259)
QY 42 CysAlaIleCysArgGnsHsiIleMetAspLeuCySIlleGluCysGlnAlaAenglnAla 61
DB 145 TGAAGCGTATGCTACAGAAATATACGAAAGAAATATAATTAACAA-----192
QY 62 SerAlaThrSerGluGluCysThrValAlaIleTpgIlyVal-----CysAsnHsiAla 78
DB 193 -----TATTCGATATTTTACCAATTCGTAACACGCG 225
QY 79 PheHisPheHisCysIleSerArgTrpLeuLys-----ThrArgGln 92
DB 226 TTTTGGTTTACTGTTACTACACGTTGAGTGTCTATATATAAAGCTACCGATACCGAAGCT 285
QY 93 ValCysPro-----LeuAspAsnArgGluTrpGluPhe 103
DB 286 ACATGTCCTGTATGTAGACACAGTTCTGTATTATAGTGCCTAATAGGTACTGTGATAGAC 345
QY 104 GlnLysTyr 106
DB 346 GATTAATAT 354
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```
RESULT 10
US-09-079-587-2
; Sequence 2, Application US/09079587
; Patent No. 6130066
; GENERAL INFORMATION:
; APPLICANT: TARTAGLIA, JAMES
; APPLICANT: COX, WILLIAM I.
; APPLICANT: GETTIG, RUSSELL R.
; APPLICANT: MARTINEZ, HECTOR
; APPLICANT: PAOLETTI, ENZO
; APPLICANT: PINCUS, STEVEN E.
; TITLE OF INVENTION: VECTORS HAVING ENHANCED EXPRESSION, AND
; TITLE OF INVENTION: METHODS OF MAKING AND USES THEREOF
; NUMBER OF SEQUENCES: 48
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
; STREET: 745 FIFTH AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10151
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/079,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/816,155
; FILING DATE: 12-MAR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: KOMALSKI, THOMAS J.
; REGISTRATION NUMBER: 32,147
; REFERENCE/DOCKET NUMBER: 454310-2990
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-588-0800
; TELEFAX: 212-588-0500
; INFORMATION FOR SEQ. ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4259 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-079-587-2

Alignment Scores:
Pred. No.: 3 64 Length: 4259
Score: 81.50 Matches: 22
Percent Similarity: 36.14% Conservative: 8
Best Local Similarity: 26.51% Mismatches: 22
Query Match: 13.23% Indels: 31
Gaps: 4

US-09-541-462b-2 (1-108) x US-09-079-587-2 (1-4259)
QY 42 CysAlaIleCysArgGnsHsiIleMetAspLeuCySIlleGluCysGlnAlaAenglnAla 61
DB 145 TGAAGCGTATGCTACAGAAATATACGAAAGAAATATAATTAACAA-----192
QY 62 SerAlaThrSerGluGluCysThrValAlaIleTpgIlyVal-----CysAsnHsiAla 78
DB 193 -----TATTCGATATTTTACCAATTCGTAACACGCG 225
QY 79 PheHisPheHisCysIleSerArgTrpLeuLys-----ThrArgGln 92
DB 226 TTTTGGTTTACTGTTACTACACGTTGAGTGTCTATATATAAAGCTACCGATACCGAAGCT 285
QY 93 ValCysPro-----LeuAspAsnArgGluTrpGluPhe 103
DB 346 GATTAATAT 354
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Db 194 -----|||||-----|||||-----GTCTGCGC 226
QY 77 HisAlaPheHisPheHisCysIleSerArgTrpLeuLysThr-----ArgGlnVal 93
Db 227 CACCTGTACTGTGGCAGTCATGTCATCAGTGGCTGAGACACGCGCAGAACGCGCAAGAG 286
QY 94 CysProLeu 96
Db 287 TGTCCACTA 295
RESULT 13
US-08-933-750C-97
Sequence 97, Application US/08933750C
Patent No. 5932442
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shah, Purvi
APPLICANT: Au-Young, Janice
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/933 750C
FILING DATE: September 23, 1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: TESTNOT07
CLONE: 3217567
US-08-933-750C-97
Alignment Scores:
Pred. No.: 0.897
Score: 80.00
Percent Similarity: 39.81%
Best Local Similarity: 28.16%
Query Match: 12.99%
DB: 2
US-09-541-462b-2 (1-108) x US-08-933-750C-97 (1-1112)

QY 1 MetaIaAlaIaMetAspValAsp---ThrProSerGlyThrAsn-----SerGly 16
Db 100 ATGGCAGCAGCGGAGGAGGAGGCGGCCCCCAAGGCCCAATTCGCGAGCGGCGG 159
QY 17 AlaGlyLysLysArgPheGluValLysLysTrpAsnIaValaIaLeuTrpAlaTrpAsp 36
Db 160 GCGGCG---GCGACCTTCGAA-----177
QY 37 IleValValaSpaScysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCys 56
Db 178 -----TCTAATATATGTTTGAG---195
QY 57 GlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrValaIaTrpGlyValCysAsn 76
Db 196 -----|||||-----GTCTGCGC 228
QY 77 HisAlaPheHisPheHisCysIleSerArgTrpLeuLysThr-----ArgGlnVal 93
Db 229 CACCTGTACTGTGGCAGTCATGTCATCAGTGGCTGAGACACGCGCAGAACGCGCAAGAG 288
QY 94 CysProLeu 96
Db 289 TGTCCACTA 297
RESULT 14
US-09-234-613-97
Sequence 97, Application US/09234613
Patent No. 6132973
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shah, Purvi
APPLICANT: Au-Young, Janice
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/234,613
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/933,750
FILING DATE: September 23, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy J.
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0356 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
TELEX:
INFORMATION FOR SEQ ID NO: 97:
SEQUENCE CHARACTERISTICS:
LENGTH: 1112 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Alignment Scores:

Pred. No.: 1,02e-74 Length: 476
 Score: 611.00 Matches: 107
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 99.19% Indels: 0
 DB: 11 Gaps: 0

US-09-541-462b-2 (1-108) x US-09-918-995-17191 (1-476)

QY 2 AAlaAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysArg 21
 DB 75 GCGGAGCGATGATGGATGCCATCCCGAGCGGCACACAGCGCGCGGCAAGAGCCG 134
 QY 22 PheGluValLysLysThrAsnAlaValAlaLeuTrpAlaTrpAspIleValValAspAsn 41
 DB 135 TTGTAAGTGAAGAAATGGATATCAATAGCCCTCTGGCGCTGGGATATGTGTTGATTAC 194
 QY 42 CysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAla 61
 DB 195 TGTGCCATCTGCAGAGACCATATATGATCTTTGCATATGATATGTCAGCTAACCGCG 254
 QY 62 SerAlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPhe 81
 DB 235 TCCGCTACTTCAGAAAGAGTGTCTGCTCCATGGGAGAGTCTTAACCATCTTTCACTTC 314
 QY 82 HisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgIuTrp 101
 DB 315 CACTGCATCTCTCGCTGGCTCAAAACACACAGAGTGTGTCATTGACACAGAGAGTGG 374
 QY 102 GluPheGlnLysTyGlyHis 108
 DB 375 GAATTCCAAAACTATGGGCAC 395

RESULT 2

US-10-198-846-11311/c
 ; Sequence 11311, Application US/10198846
 ; Publication No. US20030099974A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Lillie, James
 ; APPLICANT: Xu, Yongyao
 ; APPLICANT: Wang, Youzhen
 ; APPLICANT: Steinmann, Kathleen
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
 ; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 ; FILE REFERENCE: MRI-049
 ; CURRENT APPLICATION NUMBER: US/10/198,846
 ; PRIOR FILING DATE: 2002-07-18
 ; PRIOR APPLICATION NUMBER: 60/306,220
 ; NUMBER OF SEQ ID NOS: 14084
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 11311
 ; LENGTH: 4543
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-10-198-846-11311

Alignment Scores:

Pred. No.: 8,65e-73 Length: 4543
 Score: 607.00 Matches: 106
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 98.54% Indels: 0
 DB: 14 Gaps: 0

US-09-541-462b-2 (1-108) x US-10-198-846-11311 (1-4543)

QY 3 AAlaAlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysArgPhe 22
 DB 1085 GCAGGATGATGTGTGATATACCCGAGCGGACACACAGCGGCGGCGCAAGAGCGCTTT 1026

QY 23 GluValLysLysThrAsnAlaValAlaLeuTrpAlaTrpAspIleValValAspAsnCys 42
 DB 1025 GAAGTGAAGAAATGGATATCAATAGCCCTCTGGCGCTGGGATATGTGTTGATTAACTGT 966
 QY 43 AlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSer 62
 DB 965 GCCATCTGCAGAGACCATATATGATCTTTGCATATGATATGTCAGCTAACGAGCGGTCC 906
 QY 63 AlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPheHis 82
 DB 905 GCTACTTCAGAAAGATGATCTGCGATGGGAGCTGTACCATGCTTTTCACTTCCAC 846
 QY 83 CysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgIuTrpGlu 102
 DB 845 TGCATCTCTCGCTGGCTCAAAACACAGAGTGTGTCCATTGTGACACAGAGAGTGGGA 786
 QY 103 PheGlnLysTyGlyHis 108
 DB 785 TTCCAAAGATATGGGCAC 768

RESULT 3

US-09-960-352-4677
 ; Sequence 4677, Application US/09960352
 ; Patent No. US20020137139A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Warren, Wesley C.
 ; APPLICANT: Tao, Nengbing
 ; APPLICANT: Byalt, John C.
 ; APPLICANT: Mathialagan, Nagappan
 ; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
 ; FILE REFERENCE: 16511, 006/37-21(10298)C
 ; CURRENT APPLICATION NUMBER: US/09/960,352
 ; CURRENT FILING DATE: 2001-09-24
 ; NUMBER OF SEQ ID NOS: 15112
 ; SEQ ID NO 4677
 ; LENGTH: 380
 ; TYPE: DNA
 ; ORGANISM: Bos taurus
 ; OTHER INFORMATION: Clone ID: 20-LIB34-034-Q1-E1-E7
 ; US-09-960-352-4677

Alignment Scores:

Pred. No.: 8,61e-73 Length: 380
 Score: 596.00 Matches: 103
 Percent Similarity: 100.00% Conservative: 2
 Best Local Similarity: 98.10% Mismatches: 0
 Query Match: 96.75% Indels: 0
 DB: 10 Gaps: 0

US-09-541-462b-2 (1-108) x US-09-960-352-4677 (1-380)

QY 4 AlaMetAspValAspThrProSerGlyThrAsnSerGlyAlaGlyLysLysArgPheGlu 23
 DB 4 GCGATGATGTGATATACCCGAGCGGCACCAACAGCGCGCGCAAGAGCGCTTGA 63
 QY 24 ValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspIleValValAspAsnGlyAla 43
 DB 64 GTGAAGATGGAATCACTAGCCCTCTGGCGCTGGGATATGTGATATGATATGTC 123
 QY 44 IleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGlnAlaSerAla 63
 DB 124 ATCTGCAGAGACCATATATGATCTTTGCATATGATATGTCAGCGCGCTCCCT 183
 QY 64 ThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPheHisCys 83
 DB 184 ACTTCTGAAGATGACCGTGGCGGTGGCGCTGTAAACCATGCTTTCACTTCCACTGC 243
 QY 84 IleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgIuTrpGluPhe 103
 DB 244 ATCTCTCGCTGCTCAAAACACAGAGTGTGTCCGTTGGACACAGAGAGTGGAAATTC 303
 QY 104 GlnLysTyGlyHis 108

Db 304 CAAAGTATGGCAGC 318

RESULT 4
US-10-205-823-382/C

Sequence 382, Application US/10205823
Publication No. US20030108963A1

GENERAL INFORMATION:

APPLICANT: Schlegel, Robert
APPLICANT: Monahan, John E.
APPLICANT: Endege, Wilson O.
APPLICANT: Gannavarapu, Manjula
APPLICANT: Gorbacheva, Bella
APPLICANT: Hoersch, Sebastian
APPLICANT: Kamatkar, Shubhangi
APPLICANT: Monsey, Angela M.
APPLICANT: Clatt, Karen
APPLICANT: Zhao, Xumei
APPLICANT: Anderson, Dustin
TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
FILE REFERENCE: MRL-044
CURRENT APPLICATION NUMBER: US/10/205,823
PRIOR FILING DATE: 2002-07-25
PRIOR APPLICATION NUMBER: 60/307,982
PRIOR FILING DATE: 2001-07-25
PRIOR APPLICATION NUMBER: 60/314,356
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/325,020
PRIOR FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: 60/341,746
PRIOR FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: 60/362,158
PRIOR FILING DATE: 2002-03-05
NUMBER OF SEQ ID NOS: 455
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 382
LENGTH: 5111
TYPE: DNA
ORGANISM: Homo sapiens
US-10-205-823-382

Alignment Scores:

Pred. No.: 2,03e-65 Length: 5111
Score: 554.00 Matches: 98
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 89.94% Indels: 0
DB: 14 Gaps: 0

US-09-541-462b-2 (1-108) x US-10-205-823-382 (1-5111)

QY 3 AlaAlaMetasPValasPThrProSerGlyThrAsnSerGlyAlaGlyLysArgPhe 22
Db 296 GCACGATGGATGGATGATACCCGAGCGGACCAAGCGCGCGGCGGCAAGAGCGCTT 237
QY 23 GluValLysLysTrpAsnAlaValAlaLeuTrpAlaTrpAspLleValAlaAspAsnCys 42
Db 236 GAAGTGAAGGAGGATGAGTACGATGCGCTTGGGCGGATATGGTGGTGAATACGTG 177
QY 43 AlaLleCysArgAsnHisLleMetasPLeuCysLleGluCysGlnAlaAsnGlnAlaSer 62
Db 176 GCCATCTGCAGAGACCATATGATGATCTTGCATAGAAATGTCAGGTAAACGCGCTCC 117
QY 63 AlaThrSerGluGluCysThrValAlaTrpGlyValCysAsnHisAlaPheHisPheHis 82
Db 116 GCTACTTCAGAGAGTGTACTGTGCGATGGGAGGTGTGTAACCATGCTTTCACTTCAC 57
QY 83 CysLleSerArgTrpLysLysTrpArgGlnValCysProLeuAspAsnArgGlu 100
Db 56 TGCATCTCTGCTGGGCTCAAAACAGCAGCGAGTGTCTCATTTGACACAGAGAG 3

RESULT 5
US-09-770-791-20

Sequence 20, Application US/09770791

Patent No. US20020062014A1

GENERAL INFORMATION:

APPLICANT: Goriach, Jörn
APPLICANT: An, Yong-Olang
APPLICANT: Hamilton, Carol M.
APPLICANT: Price, Jennifer L.
APPLICANT: Raines, Tracy M.
APPLICANT: Yu, Yang
APPLICANT: Rameaka, Joshua G.
APPLICANT: Page, Amy
APPLICANT: Mathew, Abraham V.
APPLICANT: Ledford, Brooke L.
APPLICANT: Moessner, Jeffrey P.
APPLICANT: Haas, William David
APPLICANT: Garcia, Carlos A.
APPLICANT: Kricker, Maya
APPLICANT: Slader, Ted
APPLICANT: Davis, Keith R.
APPLICANT: Allen, Keith
APPLICANT: Hofman, Neil
APPLICANT: Hurban, Patrick
TITLE OF INVENTION: Expressed Sequences of Arabidopsis
TITLE OF INVENTION: thaliana
FILE REFERENCE: 2029 (PARA-018PRV)
CURRENT APPLICATION NUMBER: US/09/770,791
PRIOR FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,480
PRIOR FILING DATE: 2000-01-27
NUMBER OF SEQ ID NOS: 999
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 20
LENGTH: 390
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-770-791-20

Alignment Scores:

Pred. No.: 1.09e-61 Length: 390
Score: 515.50 Matches: 92
Percent Similarity: 83.19% Conservative: 7
Best Local Similarity: 77.31% Mismatches: 9
Query Match: 83.69% Indels: 11
DB: 9 Gaps: 2

US-09-541-462b-2 (1-108) x US-09-770-791-20 (1-390)

QY 1 MetAlaAlaMetasPValasPThr-----ProSerGly----- 12
Db 20 TTAAATGGCGACTAGACTCCGACGTTACCATGATCTCTCCGAGAGAGCTCCAGCAGC 79
QY 13 -----ThrAsnSerGlyAlaGlyLysArgPheGluValLysLysTrpAsnAla 29
Db 80 GTAGCGCGCGTCTCTCCACAGAAAGCTAAGCATTCGAATTAAGATGGAGCGCC 139
QY 30 ValAlaLeuTrpAlaTrpAspLleValAlaAspAsnCysAlaLleCysArgAsnHisLle 49
Db 140 GTTGCTCTCTGGGCTGGGATATCGTTGTGAACAACGTGCGATCTGCAGAAACCATC 199
QY 50 MetasPLeuCysLleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThr 69
Db 200 ATGATCTTTGTATCGATGATCAGGCTTAATCAGGCCAGTCCACAACTGAAGATGACT 259
QY 70 ValAlaTrpGlyValCysAsnHisAlaPheHisPheHisCysLleSerArgTrpLeuLys 89
Db 260 GTAGCTTGGGGGGTTCATCAATCAGCCTTCACATTCATCGATCAGACAGATGCTTAAAG 319
QY 90 ThrArgGlnValCysProLeuAspAsnArgGluTrpGluPheGlnLysTrpGlyHis 108
Db 320 ACTGCTCAAGTGTCTTCATTCATTAACATGAGTGGAGTTCAGAAATATGTGTAC 376

```
RESULT 6
US-09-780-016-27
: Sequence 27, Application US/09780016
: Patent No. US20020004591A1
: GENERAL INFORMATION:
: APPLICANT: Donoho, Gregory
: APPLICANT: Scoville, John
: APPLICANT: Turner, C. Alexander Jr.
: APPLICANT: Friedlich, Glenn
: APPLICANT: Abulin, Alejandro
: APPLICANT: Zambrowicz, Brian
: APPLICANT: Sands, Arthur T.
: TITLE OF INVENTION: No. US20020004591A1 Human Proteases and
: FILE REFERENCE: LEX-0132-USA
: CURRENT APPLICATION NUMBER: US/09/780,016
: PRIOR FILING DATE: 2001-02-09
: PRIOR APPLICATION NUMBER: US 60/181,294
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 27
: LENGTH: 3208
: TYPE: DNA
: ORGANISM: homo sapiens
US-09-780-016-27

Alignment Scores:
Pred. No.: 1.79e-58 Length: 3208
Score: 501.50 Matches: 88
Percent Similarity: 95.70% Conservative: 1
Best Local Similarity: 94.62% Mismatches: 1
Query Match: 81.41% Indels: 3
DB: 9 Gaps: 1

US-09-541-462b-2 (1-108) x US-09-780-016-27 (1-3208)
QY 16 GYALAGLYSLYSARGPHEGLUVALYSLYSTRPASNALAVALLALEUTRPALEATRP 35
Db 2752 GGAGCATATAAAAAA-----AAAAATGGAATGCAATGAGCCCTGGGCGCTGG 2802
QY 36 ASPILEVALVALAPASNCYSALALECYSGARGASNHSILEMETASPLEUCYSILEGLU 55
Db 2803 GATATTGGCTTGTGATTAACCTGCGCATCTGCAGAACCCACATTAATGATCTTGCATAGAA 2862
QY 56 CYSGLNALAANGINALASERFALATHTSERGLUCYSTTRVALATATRPGLVVALCYGS 75
Db 2863 TGTCAAGCTAACCGAGCGCTCGCTACTTCAGAACAGTGTACTGCGCATGGGAGTCTGT 2922
QY 76 ASNHISALAPHEHISPHENHSICYSILESERAGTTRPLEULYSTRHARGINVALCYSPRO 95
Db 2923 AACCATGCTTTTCACTTCACATCGATCTCTGCGTGGCCCAAAACACGACGAGTGTGTCCA 2982
QY 96 LEUASPASNAARGGLUTRPGIUPHAGLNLSTYRGLYHIS 108
Db 2983 TTGGACACACAGAGAGTGGGAATTCCAAAGATATGGGCAC 3021

RESULT 7
US-10-214-811-27
: Sequence 27, Application US/10214811
: Publication No. US20030023062A1
: GENERAL INFORMATION:
: APPLICANT: Donoho, Gregory
: APPLICANT: Scoville, John
: APPLICANT: Turner, C. Alexander Jr.
: APPLICANT: Friedlich, Glenn
: APPLICANT: Abulin, Alejandro
: APPLICANT: Zambrowicz, Brian
: APPLICANT: Sands, Arthur T.
: TITLE OF INVENTION: No. US20030023062A1 Human Proteases and
: FILE REFERENCE: LEX-0132-USA
: CURRENT APPLICATION NUMBER: US/10/214,811
```

```
: CURRENT FILING DATE: 2002-08-07
: PRIOR APPLICATION NUMBER: US/09/780,016
: PRIOR FILING DATE: 2001-02-09
: PRIOR APPLICATION NUMBER: US 60/181,294
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 27
: LENGTH: 3208
: TYPE: DNA
: ORGANISM: homo sapiens
US-10-214-811-27

Alignment Scores:
Pred. No.: 1.79e-58 Length: 3208
Score: 501.50 Matches: 88
Percent Similarity: 95.70% Conservative: 1
Best Local Similarity: 94.62% Mismatches: 1
Query Match: 81.41% Indels: 3
DB: 14 Gaps: 1

US-09-541-462b-2 (1-108) x US-10-214-811-27 (1-3208)
QY 16 GYALAGLYSLYSARGPHEGLUVALYSLYSTRPASNALAVALLALEUTRPALEATRP 35
Db 2752 GGAGCATATAAAAAA-----AAAAATGGAATGCAATGAGCCCTGGGCGCTGG 2802
QY 36 ASPILEVALVALAPASNCYSALALECYSGARGASNHSILEMETASPLEUCYSILEGLU 55
Db 2803 GATATTGGCTTGTGATTAACCTGCGCATCTGCAGAACCCACATTAATGATCTTGCATAGAA 2862
QY 56 CYSGLNALAANGINALASERFALATHTSERGLUCYSTTRVALATATRPGLVVALCYGS 75
Db 2863 TGTCAAGCTAACCGAGCGCTCGCTACTTCAGAACAGTGTACTGCGCATGGGAGTCTGT 2922
QY 76 ASNHISALAPHEHISPHENHSICYSILESERAGTTRPLEULYSTRHARGINVALCYSPRO 95
Db 2923 AACCATGCTTTTCACTTCACATCGATCTCTGCGTGGCCCAAAACACGACGAGTGTGTCCA 2982
QY 96 LEUASPASNAARGGLUTRPGIUPHAGLNLSTYRGLYHIS 108
Db 2983 TTGGACACACAGAGAGTGGGAATTCCAAAGATATGGGCAC 3021

RESULT 8
US-09-918-995-14771
: Sequence 14771, Application US/09918995
: Publication No. US20030073623A1
: GENERAL INFORMATION:
: APPLICANT: Hyseq, Inc.
: TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
: FILE REFERENCE: 20411-756
: CURRENT APPLICATION NUMBER: US/09/918,995
: PRIOR FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: US/09/235,076
: NUMBER OF SEQ ID NOS: 38054
: SOFTWARE: FASTSEQ for Windows Version 3.0
: SEQ ID NO 14771
: LENGTH: 439
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-918-995-14771

Alignment Scores:
Pred. No.: 3.69e-45 Length: 439
Score: 396.00 Matches: 67
Percent Similarity: 98.55% Conservative: 1
Best Local Similarity: 97.10% Mismatches: 1
Query Match: 64.29% Indels: 0
DB: 11 Gaps: 0

US-09-541-462b-2 (1-108) x US-09-918-995-14771 (1-439)
```

QY	27	TRPAsnAlaValAlaLeuTriPAlaTrpAspIleValAlaAsnCysAlaIleCysArg	46			
Db	232	TGGAAATGCAATATCCCTCTCGGGCCCTGGGATATGTTGGATGTAATCACTGTCACATCGCAGG	291			
QY	47	AsnHisIleMetAspLeuCysIleIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGlu	66			
Db	292	AACCAATATATGATGATCTTTGGATAGATGTCAAGCATCAACGACGCGCTCCGTAATTCAGAA	351			
QY	67	GluCysThrValAlaIleTrpIleValCysAsnHisAlaPheHisCysIleSerArg	86			
Db	352	GAGGTACCTGCTCCATGGGGAGCTGTAACTCAATGCTTTTCACTTCACATCGACATCTCGC	411			
QY	87	TriPLeuIleThrArgGlnValCysPro	95			
Db	412	TGGCTCAAAACACGACAGGTGTGTCCA	438			
RESULT 9						
US-10-017-721-3						
; Sequence 3, Application US/10017721						
; Publication No. US20030096248A1						
; GENERAL INFORMATION:						
; APPLICANT: McCarthy, Jeanette						
; APPLICANT: Daley, George						
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE						
; FILE REFERENCE: NMI-003						
; CURRENT APPLICATION NUMBER: US/10/017,721						
; PRIOR APPLICATION NUMBER: US 60/317,033						
; PRIOR FILING DATE: 2001-09-04						
; PRIOR APPLICATION NUMBER: US 60/330,248						
; PRIOR FILING DATE: 2001-10-17						
; NUMBER OF SEQ ID NOS: 13						
; SOFTWARE: FastSeq for Windows Version 4.0						
; SEQ ID NO 3						
; LENGTH: 175561						
; TYPE: DNA						
; ORGANISM: Homo sapiens						
US-10-017-721-3						
Alignment Scores:						
Pred. No.:	1.66e-35	Length:	175561			
Score:	352.50	Matches:	75			
Percent Similarity:	78.70%	Conservative:	10			
Best Local Similarity:	69.44%	Mismatches:	20			
Query Match:	57.22%	Indels:	5			
DB:	14	Gaps:	1			
US-09-541-462B-2 (1-108) x US-10-017-721-3 (1-175561)						
QY	1	MetalAlaIleMetAspValAspThrProSerCylThrAsnSerGlyAlaGlyLysLys	20			
Db	59458	ATGGCAATGGCAATGGATGGATGATACCCCAAGAAGTACCAACGACAGTCTTTGAGTAA	59517			
QY	21	ArgPheGluValLysLysLysTrpAsnAlaValAlaLeuTriPAlaTrpAspIleValAla	40			
Db	59518	AAAGGTGAATATGACG-----TAGCTAGCCCTCTGGGCTTGGGATGTTGTGGTAAAT	59568			
QY	41	AsnCysAlaIleCysArgAsnHisIleMetAspLeuCysIleGluCysGlnAlaAsnGln	60			
Db	59569	AACGTGCTCCATCTGCACAGAAATCAACAGATGATC--TGCATGGAATGTCAACCTAACCA	59626			
QY	61	AlaSerAlaThrSerGluGluCysThrValAlaIleTrpGluValCysAsnHisAlaPheHis	80			
Db	59627	GAGCTGTGCACTTCAGAAATGTGTACCGCTTGCCAGGGGAGACCTGTAAACCGTCTTTTAC	59686			
QY	81	PheHisCysIleSerArgTrpLeuLysThrArgGlnValCysProLeuAspAsnArgGlu	100			
Db	59687	TT-CAGTGTCTCTCTCACTGCTGTCAAAAACACACAGCTGTGGCTTTGGACAACAGACAA	59745			
QY	101	TrpGluPheGlnLysLysTrpGlyHis	108			

```

Db          59746 TAGAATTCCCAAGTATGACAC 59769

RESULT 10
US-09-962-436-220/c
; Sequence 220, Application US/09962436
; Patent No. US20020081301A1
; GENERAL INFORMATION:
; APPLICANT: Soppet, Daniel
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signa
; TITLE OF INVENTION: Sels
; FILE REFERENCE: 689290-75
; CURRENT APPLICATION NUMBER: US/09/962,436
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/60/235,082
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/234,924
; PRIOR FILING DATE: 2000-09-25
; NUMBER OF SEQ ID NOS: 568
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 220
; LENGTH: 418
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-962-436-220

Alignment Scores:
Pred. No.:          7,25e-31          Length:          418
Score:              292.00            Matches:          58
Percent Similarity: 84.42%            Conservative:     7
Best Local Similarity: 75.32%          Mismatches:      12
Query Match:        47.40%            Indels:           2
DB:                  9                Gaps:            0

US-09-541-462b-2 (1-108) x US-09-962-436-220 (1-418)

QY      32 leuTPRAATrPPASpLleValaValaAspAsnCysAlaAlaIecysATGAsnHisIleMetasp 51
      418 GTCGTGGCTGGAGATGTGTGTGTTAATACGTGTGCACATCTGCAGGAAATACAGCATGGAT 359
      52 leucysIleGIuGcysGlnAlaAsnGlnAlaSerAlaThrSerGIuGluCysThrValaAla 71
      358 C--TGCATTGATGATGTCAGAGCTAACCAAGAGCTGCGCACTTCGAAGAGTGTACCGTTGCA 301
      72 TrpGIyValaCysAsnHisAlaPheHisPheHisCysIleSerATGTrpLeuLysThArg 91
      300 CGGGAGCGCTGATACCGCTGTTTCACATT-CACGTCTCTCTCACATGGCTCAAAACACAA 242
      92 GlnValaCysProLeuAspAsnArgGluTrpGluPheGlnLysTyrgLys 108
      241 CAGCTGTCTCTGTGGACACAGACAAATGAAATTCACCAAGATATGACAC 191

RESULT 11
US-09-764-864-39
; Sequence 39, Application US/09764864
; Patent No. US20020132753A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT23
; CURRENT APPLICATION NUMBER: US/09/764,864
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1792
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
; LENGTH: 836
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-864-39

Alignment Scores:
Pred. No.:          1,92e-30          Length:          836
Score:              292.00            Matches:          49

```

RESULT 14
US-10-108-767-7
Sequence 7, Application US/10108767
Publication No. US20030104474A1
GENERAL INFORMATION:
APPLICANT: Issakanl, Sarkiz D.
APPLICANT: Huang, Jiating
APPLICANT: Sheung, Julie
APPLICANT: Pray, Todd R.
TITLE OF INVENTION: ASSAYS FOR IDENTIFYING UBIQUITIN AGENTS AND FOR IDENTIFYING AG
TITLE OF INVENTION: MODIFY THE ACTIVITY OF UBIQUITIN AGENTS
FILE REFERENCE: A-68613-5/RMS/DCF
CURRENT APPLICATION NUMBER: US-10/108 767

```
; CURRENT FILING DATE: 2002-09-26
; PRIOR APPLICATION NUMBER: US 09/542,497
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 09/826,312
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 10/091,139
; PRIOR FILING DATE: 2002-03-04
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 7
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-108-767-7

Alignment Scores:
Pred. No.: 2,67e-30 Length: 342
Score: 287.00 Matches: 48
Percent Similarity: 63.92% Conservative: 14
Best Local Similarity: 49.48% Mismatches: 31
Query Match: 46.59% Indels: 4
DB: 14 Gaps: 2

US-09-541-462b-2 (1-108) x US-10-108-767-7 (1-342)
QY 11 SerGlyThrasnserGlyAlaGlyLysArgPheGluValLysLysTrpAsnAlaVal 30
   |||||::: ||||| || ||| :::||||| ||||| |||
DB 58 TCAGGCTCACACGTCGGGA---GGCGACACAGATGTTCTCCCTCAAGAGTGGAACCCGGTG 114
QY 31 AlaLeuTrpAlaTrpAspIleValAlaAspAsnCysAlaIleCysArgAsnHisIleMet 50
   ||:::||:::|||||::: ||| ||||| ||||| |||
DB 115 GCCATGTGAGCTGGGAGCTGGAGCTGATACGTGCCCATCTGCAGAGGTCAGGTGATG 174
QY 51 AspleuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrVal 70
   ||| |||::: ||||| ||| ||||| ||||| |||
DB 175 GATGCCGTCTTGAGATGTCAGCTGAAC-----AACACAGAGGACTGTGTGTG 225
QY 71 AlaTrpGlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTrpLeuLysThr 90
   ||||| ||||| ||||| ||||| ||||| ||||| |||
DB 226 GTCTGGGAGAAATGATATCATCTCTCCACAACTGCGCATGTCCCTGGGTGGGAAACAG 285
QY 91 ArgGlnValCysProLeuAspAsnArgGluTrpGluPheGlnLysTyrgly 107
   ||||| ||||| ||||| ||||| ||||| ||||| |||
DB 286 AACATCGCTGCCCTCTCTGCCAGCAGGACTGGTGGTCCAAAGAAATCGGC 336

RESULT 15
US-10-152-156-7
; Sequence 7, Application US/10152156
; Publication No. US20030108947A1
; GENERAL INFORMATION:
; APPLICANT: Issakani, Sarkiz D.
; APPLICANT: Huang, Jianing
; APPLICANT: Sheung, Julie
; APPLICANT: Pray, Todd R.
; TITLE OF INVENTION: ASSAYS FOR IDENTIFYING UBIDUTIN AGENTS AND FOR IDENTIFYING AGENT
; FILE REFERENCE: A-68613-6/RMS/DCF
; CURRENT APPLICATION NUMBER: US/10/152,156
; CURRENT FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 09/542,497
; PRIOR FILING DATE: 2000-04-03
; PRIOR APPLICATION NUMBER: US 09/826,312
; PRIOR FILING DATE: 2001-04-03
; PRIOR APPLICATION NUMBER: US 10/091,174
; PRIOR FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 10/091,139
; PRIOR FILING DATE: 2002-03-04
; PRIOR APPLICATION NUMBER: US 10/109,460
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US 10/108,767
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US 60/291,836
; PRIOR FILING DATE: 2001-05-18
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; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 7
; LENGTH: 342
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-152-156-7

Alignment Scores:
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US-09-541-462b-2 (1-108) x US-10-152-156-7 (1-342)
QY 11 SerGlyThrasnserGlyAlaGlyLysArgPheGluValLysLysTrpAsnAlaVal 30
   |||||::: ||||| || ||| :::||||| ||||| |||
DB 58 TCAGGCTCACACGTCGGGA---GGCGACACAGATGTTCTCCCTCAAGAGTGGAACCCGGTG 114
QY 31 AlaLeuTrpAlaTrpAspIleValAlaAspAsnCysAlaIleCysArgAsnHisIleMet 50
   ||:::||:::|||||::: ||| ||||| ||||| |||
DB 115 GCCATGTGAGCTGGGAGCTGGAGCTGATACGTGCCCATCTGCAGAGGTCAGGTGATG 174
QY 51 AspleuCysIleGluCysGlnAlaAsnGlnAlaSerAlaThrSerGluGluCysThrVal 70
   ||| |||::: ||||| ||| ||||| ||||| |||
DB 175 GATGCCGTCTTGAGATGTCAGCTGAAC-----AACACAGAGGACTGTGTGTG 225
QY 71 AlaTrpGlyValCysAsnHisAlaPheHisPheHisCysIleSerArgTrpLeuLysThr 90
   ||||| ||||| ||||| ||||| ||||| ||||| |||
DB 226 GTCTGGGAGAAATGATATCATCTCTCCACAACTGCGCATGTCCCTGGGTGGGAAACAG 285
QY 91 ArgGlnValCysProLeuAspAsnArgGluTrpGluPheGlnLysTyrgly 107
   ||||| ||||| ||||| ||||| ||||| ||||| |||
DB 286 AACATCGCTGCCCTCTCTGCCAGCAGGACTGGTGGTCCAAAGAAATCGGC 336

Search completed: August 27, 2003, 04:59:42
Job time : 844 secs
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